Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A synthetic resin-impregnated body, comprising:

a primary product formed of an expanded or at least partially recompressed expanded graphite having a liquid-accessible open pore system;

said primary product having an ash value limited to not more than four percent of the primary product;

said primary product being impregnated with at least one of:

at least one solvent-free, low-viscosity, storage-stable, polymerizable acrylic resin system; and

polymers obtained by curing said at least one resin system.

Claim 2 (original). The synthetic resin-impregnated body according to claim 1, wherein said at least one acrylic resin system contains triethyleneglycol dimethacrylate and at least one initiator system.

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Claim 3 (original). The synthetic resin-impregnated body according to claim 2, wherein said at least one acrylic resin system contains azo initiators as said at least one initiator.

Claim 4 (original). The synthetic resin-impregnated body according to claim 3, wherein said azo initiators contained in said at least one acrylic resin system are selected from the group consisting of 2,2'-dimethyl-2,2'-azodipropiononitrile, 1,1'-azobis(1-cyclohexanecarbonitrile) and azoisobutyric acid dinitrile.

Claim 5 (original). The synthetic resin-impregnated body according to claim 1, wherein said at least one acrylic resin system has a storage stability at room temperature of more than two days.

Claim 6 (original). The synthetic resin-impregnated body according to claim 1, wherein said at least one acrylic resin system has a storage stability at room temperature of more than two weeks.

Claim 7 (original). The synthetic resin-impregnated body according to claim 1, including up to 50% by weight of acrylic resin.

Claim 8 (original). The synthetic resin-impregnated body according to claim 1, including 5 to 25% by weight of acrylic resin.

Claim 9 (original). The synthetic resin-impregnated body according to claim 1, including 10 to 20% by weight of acrylic resin.

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Claim 10 (canceled).

Claim 11 (previously presented). The synthetic resin-impregnated body according to

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claim 1, including at least two independently held together networks, one of said

networks being formed of a connected framework made of expanded or expanded

and thereafter at least partially recompressed graphite that is thermally conductive

and has an electrical volume resistance from 0.10 to 0.77 mΩ, and the other of said

networks being a connected network made of synthetic material having penetrated

into said graphite.

Claim 12 (previously presented). The synthetic resin-impregnated body according to

claim 1, including a surface, regions close to said surface, and a remaining part, said

at least one acrylic resin system disposed only in one of said remaining part and said

regions.

Claim 13 (original). The synthetic resin-impregnated body according to claim 1,

wherein a continuous resin surface film is not present and the body is electrically

conductively contactable.

Claim 14 (previously presented). A process for producing a body containing at least

one synthetic resin, which comprises:

providing a primary product formed of expanded or at least partially recompressed

expanded graphite having a liquid-accessible pore system;

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limiting an ash value to not more than four percent of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system;

impregnating the primary product with at least one solvent-free, polymerizable acrylic

resin system to form a resin-containing, uncured intermediate product; and

finally subjecting the resin-containing, uncured intermediate product to a curing

treatment for the at least one resin system.

Claim 15 (original). The process for producing a body containing at least one

synthetic resin according to claim 14, which further comprises processing the resin-

containing, uncured intermediate product to form a shaped body; and carrying out

the subjecting step by subjecting the uncured shaped body produced from the

uncured intermediate product to a curing treatment for the at least one resin system.

Claim 16 (original). The process for producing a body containing at least one

synthetic resin according to claim 15, which further comprises simultaneously

shaping the acrylic resin-containing body and curing the resin system that is present

as a result of temperature impact.

Claim 17 (canceled).

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Claim 18 (previously presented). A process for producing a body containing at least

one synthetic resin which comprises:

providing a primary product formed of expanded or at least partially recompressed

expanded graphite having a liquid-accessible pore system;

limiting an ash value to not more than two percent of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system;

impregnating the primary product with at least one solvent-free polymerizable acrylic

resin system to form a resin-containing, uncured intermediate product;

processing the resin-containing, uncured intermediate product to form a shaped

body;

finally subjecting the resin-containing, uncured intermediate product to a curing

treatment for the at least one resin system:

carrying out the subjecting step by subjecting the uncured shaped body produced

from the uncured intermediate product to a curing treatment for the at least one resin

system; and

simultaneously shaping the acrylic resin-containing body and curing the resin system

that is present as a result of temperature impact.

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Claim 19 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, which further comprises maintaining

a bulk density in a range of from 0.1 to 1.8 g/cm³ of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system.

Claim 20 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, which further comprises maintaining

a bulk density in a range of from 0.3 to 1.5 g/cm3 of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system.

Claim 21 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, which further comprises maintaining

a bulk density in a range of from 0.5 to 1.3 g/cm3 of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system.

Claim 22 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system, is performed with acrylic resins having a

viscosity at room temperature of less than 100 mPa·s.

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Claim 23 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system, is performed with acrylic resins having a

viscosity at room temperature of less than 50 mPa·s.

Claim 24 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system, is performed with acrylic resins having a

viscosity at room temperature of less than 20 mPa·s.

Claim 25 (original). The process for producing a body containing at least one

synthetic resin according to claim 14, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up up to 100% by weight of its own weight of acrylic resins, during the

impregnating step.

Claim 26 (original). The process for producing a body containing at least one

synthetic resin according to claim 14, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up 5 to 35% by weight of its own weight of acrylic resins, during the

impregnating step.

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Claim 27 (original). The process for producing a body containing at least one

synthetic resin according to claim 14, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up 10 to 25% by weight of its own weight of acrylic resins, during the

impregnating step.

Claim 28 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, wherein the step of curing the acrylic

resins is performed in less than ten minutes under the effect of temperatures of up to

200°C.

Claim 29 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 14, wherein the step of curing the acrylic

resins is performed in less than three minutes under the effect of temperatures of up

to 200°C.

Claim 30 (currently amended). A process for producing a body containing at least

one synthetic resin, which comprises:

providing a primary product formed of expanded or at least partially recompressed

expanded graphite having a liquid-accessible pore system:

mixing the expanded graphite with fillers selected from the group consisting of

ceramic fillers, mineral fillers, electrically non-conductive fillers and electrically

conductive fillers:

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processing the mixed expanded graphite to form a filler-containing primary product;

and

limiting an ash value to not more than four percent of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system;

then impregnating the primary product with at least one solvent-free polymerizable

acrylic resin system to form a resin-containing, uncured intermediate product; and

finally subjecting the resin-containing, uncured intermediate product to a curing

treatment for the at least one resin system.

Claims 31-35 (canceled).

Claim 36 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, wherein said at least one acrylic resin system contains

triethyleneglycol dimethacrylate and at least one initiator system.

Claim 37 (previously presented). The synthetic resin-impregnated body according to

claim 36, wherein said at least one acrylic resin system contains azo initiators as

said at least one initiator.

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Claim 38 (previously presented). The synthetic resin-impregnated body according to

claim 37, wherein said azo initiators contained in said at least one acrylic resin

system comprise 2,2'-dimethyl-2,2'-azodipropiononitrile, and 1,1'-azobis(1-

cyclohexanecarbonitrile).

Claim 39 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, wherein said at least one acrylic resin system has a storage

stability at room temperature of more than two days.

Claim 40 (currently amended). The synthetic resin-impregnated body according to

claim: 10 claim 66, wherein said at least one acrylic resin system has a storage

stability at room temperature of more than two weeks.

Claim 41 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, including up to 50% by weight of acrylic resin.

Claim 42 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, including 5 to 25% by weight of acrylic resin.

Claim 43 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, including 10 to 20% by weight of acrylic resin.

Claim 44 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, including at least two independently held together networks, one

of said networks being formed of a connected framework made of expanded or

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expanded and thereafter at least partially recompressed graphite that is thermally

conductive and has an electrical volume resistance from 0.10 to 0.77 mΩ, and the

other of said networks being a connected network made of synthetic material having

penetrated into said graphite.

Claim 45 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, including a surface, regions close to said surface, and a remaining

part, said at least one acrylic resin system disposed only in one of said remaining

part and said regions.

: Claim 46 (currently amended). The synthetic resin-impregnated body according to

claim 10 claim 66, wherein a continuous resin surface film is not present and the

body is electrically conductively contactable.

Claim 47 (canceled).

Claim 48 (previously presented). A heat-conducting element, comprising:

a synthetic resin-impregnated body according to claim 1.

Claim 49 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, which further comprises processing

the resin-containing, uncured intermediate product to form a shaped body; and

carrying out the subjecting step by subjecting the uncured shaped body produced

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from the uncured intermediate product to a curing treatment for the at least one resin

system.

Claim 50 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 49, which further comprises

simultaneously shaping the acrylic resin-containing body and curing the resin system

that is present as a result of temperature impact.

Claim 51 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, which further comprises maintaining

a bulk density in a range of from 0.1 to 1.8 g/cm3 of the primary product made of

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expanded or at least partially recompressed expanded graphite having an open pore

system.

Claim 52 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, which further comprises maintaining

a bulk density in a range of from 0.3 to 1.5 g/cm3 of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system.

Claim 53 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, which further comprises maintaining

a bulk density in a range of from 0.5 to 1.3 g/cm3 of the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system.

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Claim 54 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system, is performed with acrylic resins having a

viscosity at room temperature of less than 100 mPa·s.

Claim 55 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system, is performed with acrylic resins having a

viscosity at room temperature of less than 50 mPa·s.

Claim 56 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the step of impregnating the

primary product made of expanded or at least partially recompressed expanded

graphite having an open pore system is performed with acrylic resins having a

viscosity at room temperature of less than 20 mPa·s.

Claim 57 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up up to 100% by weight of its own weight of acrylic resins, during the

impregnating step.

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Claim 58 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up 5 to 35% by weight of its own weight of acrylic resins, during the

impregnating step.

Claim 59 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the primary product made of

expanded or at least partially recompressed expanded graphite having an open pore

system, takes-up 10 to 25% by weight of its own weight of acrylic resins, during the

impregnating step.

Claim 60 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the step of curing the acrylic

resins is performed in less than ten minutes under the effect of temperatures of up to

200°C.

Claim 61 (previously presented). The process for producing a body containing at

least one synthetic resin according to claim 30, wherein the step of curing the acrylic

resins is performed in less than three minutes under the effect of temperatures of up

to 200°C.

Claim 62 (currently amended). A sealing element, comprising:

a synthetic resin-impregnated body according to claim 1 claim 66.

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Claim 63 (previously presented). A sealing element, comprising:

a synthetic resin-impregnated body according to claim 1.

Claim 64 (currently amended). A fuel cell component, comprising:

a synthetic resin-impregnated body according to claim 1 claim 66.

Claim 65 (previously presented). A fuel cell component, comprising:

a synthetic resin-impregnated body according to claim 1.

Claim 66 (new). A synthetic resin-impregnated body, comprising:

a primary product formed of an expanded or at least partially recompressed expanded graphite having a liquid-accessible open pore system;

said primary product containing fillers selected from the group consisting of ceramic fillers, mineral fillers, electrically non-conductive fillers, and electrically conductive fillers:

said primary product having an ash value limited to not more than four percent of the primary product;

said primary product being impregnated with at least one of:

at least one solvent-free, low-viscosity, storage-stable, polymerizable acrylic resin system; and

polymers obtained by curing said at least one resin system.